DOCUMENT RESUME

ED 220 418 SP 020 484

TITLE	Program of Studies Mathematics Tests. A Match of Test Items and Skills. Levels 3-6. Forms A and B. MET.
INSTITUTION	Fairfax County Public Schools, VA. Dept. of Instructional Services.
SPONS AGENCY	Virginia State Dept. of Education, Richmond. Office of Pilot Studies and Title IV-C Project.
PUB DATE	[82]
NOTE	58p.; For related documents, see SP 020 474-491.
EDRS PRICE	MF01/PC03 Plus Postage.
DESCRIPTORS	*Behavioral Objectives; Classroom Techniques; County School Districts; Curriculum Guides; Elementary Education; *Elementary School Mathematics; Inservice Teacher Education; Pilot Projects; *Resource Units; *Student Evaluation; *Test Selection
IDENTIFIERS	*Project MET

ABSTRACT

This document is part of the Management for Effective Teaching (MET) support kit, a pilot project designed by the Fairfax County (Virginia) Public Schools to assist elementary school teachers in planning, managing, and implementing the county's Program of Studies (POS). The purpose of this part of the MET kit is to enable teachers to match mathematics skills with appropriate tests and test items. Having identified the skill by its instructional code number, the teacher uses the charts in this document to locate the specific test that assesses that skill. The charts supply, for third through sixth grade levels, the math skills code, test number, test name, skill assessed, and test item. Appended are suggestions for recording POS tests results, a sample sheet for recording the use and location of diagnostic tools, and record forms to be used as student evaluation forms. (FG)

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ED220418

PROGRAM OF STUDIES MATHEMATICS TESTS

A MATCH OF TEST ITEMS AND SKILLS
LEVELS 3-6
FORMS A AND B

SP 020 484

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MET

FAIRFAX COUNTY PUBLIC SCHOOLS
Department of Instructional Services
Office of Elementary Education

MET

Management for Effective Teaching

We are happy to present the Project MET materials to you. As you know, these materials are copies of the original contents of the Management Support Kit. They are designed to assist teachers, streamline organization, and support current management efforts.

We hope that you find them useful. Should additional assistance be required, please feel free to contact us at Masonville.

Project MET Staff
Pat Harbour, Director

Office of Elementary Education
Department of Instructional Services
Fairfax County Public Schools • Fairfax, Virginia

Management for Effective Teaching

MET

MANAGEMENT SUPPORT KIT

Introduction

Project MET, Management for Effective Teaching, is a federally funded developmental project which will be piloted, with materials field-tested, in Fairfax County Public Schools, during the school year 1982-83. Materials and procedures have been developed to assist with the management of planning, teaching, and record keeping. MET products contained in the Management Support Kit are designed to aid teachers in the effective utilization of time, space, and materials in organizing and planning for instruction. Approximately 400 elementary teachers throughout the school system will use the products from the kit.

The teacher is a manager who plans, coordinates, and directs the classroom, an organizational unit of the school, and thus:

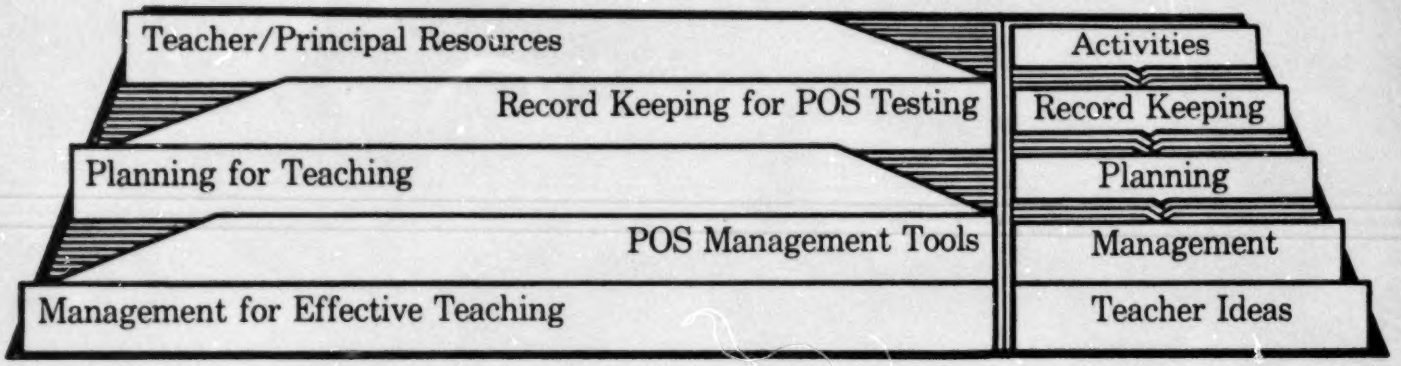
- sets goals and objectives
- ensures that appropriate knowledge and skill mastery levels are attained among students
- creates an environment conducive to the development of positive attitudes toward self and others
- teaches and reinforces positive individual and group behavior
- motivates students to achieve individual and group goals (cognitive, physical, and socio-emotional)
- manages the instructional materials, classroom space, and human resources for a quality learning environment

Research suggests that effective managment in teaching enhances the instructional program and ultimately may improve student achievement. The purpose of Project MET is to provide an opportunity for teachers to determine the extent to which this is true. Teachers will field-test the procedures, process models, and materials contained in the Management Support Kit.

During the 1982-83 school year, teachers will be asked to respond to a survey that assesses the contents of the kit. The survey will allow teachers to determine the utility and validity of the products. The participation and cooperation of each teacher using the kit and responding to the survey will be important to instructional management in Fairfax County Public Schools. Since the project is a pilot program, the results reported by teachers who have used the MET materials may have implications for instructional management throughout the state of Virginia. The time and energy of each participant will be greatly valued and appreciated.

MET

Management for Effective Teaching (MET) is a pilot project funded under Title IV-C of the Elementary and Secondary Education Act. The project was planned and implemented to answer the need expressed by teachers, principals and other educational personnel for resources to manage more effectively the Fairfax County Public Schools' Program of Studies.



What MET Is...

It is a management support kit of resources, materials and information designed to assist classroom teachers (K-6) in planning, managing and implementing the Fairfax County Public Schools' Program of Studies.

Approximately four hundred Fairfax County Public School teachers will field test and assess the products during the 1982-83 school year. The results from field testing the Management Support Kit will contribute to ideas for the development of a divisionwide instructional management system.

What MET Includes...

- a coding system for the mathematics Program of Studies
- a planning process for the first nine weeks of school, and daily/weekly and long-range models
- a record keeping system for the mathematics Program of Studies and accessment resources (Program of Studies tests) for managing the diagnostic prescriptive teaching process
- a chart which identifies and matches the Program of Studies items with specific mathematics skills
- a sample letter to parents to convey purposes of the Program of Studies testing and the manner in which to interpret test results
- a teacher plan book designed, piloted and revised by teachers
- a set of supplementary and adaptable teaching ideas
- a principal's checklist for opening and closing school

How MET Works...

It incorporates good management practice into the instructional program.

It organizes teaching strategies.

It coordinates teaching materials and diagnostic resources with the Program of Studies.

For Additional Information about Project MET
(Management for Effective Teaching), contact:

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Introduction

POS Mathematics Tests: A Match of Test Items and Skills is designed to facilitate the teacher's use of the available POS tests and the revised field test edition of the Mathematics Program of Studies K-6. The Mathematics Program of Studies, revised spring 1982, will be field tested by FCPS teachers during school year 1982-83. The tests and test items have been matched "as closely as possible."

How to Use:

The Instructional Code, assigned to each math skill, is used to identify the test and item(s) which assess the particular skill.

Step One: Identify the skill(s) to be taught from the Mathematics Program of Studies, levels 3 through 6.

Step Two: Use the assigned instructional code, levels 3 through 6, and locate the specific test and test item(s) that assess those skills.

Optional Step: Administer the desired test(s) and use the templates in the Management Support Kit to manually score for immediate results.

POS MATHEMATICS TESTS
A Match of Test Items and Skills
Level 3 Forms A and B

Math Skills Code	Test Number	Test Name	Skills	Test Item
M3 OP 02.A	Test 1:	Subtract Whole Numerals	. Find differences, through four-digit minuends and three-digit subtrahends.	1-6
M3 OP 01.B	Test 2:	Add Whole Numerals	. Determine the sum of four addends, through four digits.	7-12
M3 OP 03.A	Test 3:	Missing Terms	. Find the missing term in addition statements.	13-14
M3 OP 03.A			. Find the missing term in subtraction statements.	15-16
M3 OP 06.A			. Find the missing term in multiplication statements.	17-18
M3 OP 06.A			. Find the missing term in division statements.	19-20
M3 OP 04.B	Test 4:	Multiplication of Whole Numerals	. Apply basic multiplication skills for products through 81.	21-22
M3 OP 04.G			. Multiply vertically a two-digit factor by a one-digit factor.	23-27
M3 OP 05.A	Test 5:	Division of Whole Numerals	. Divide where the dividend is 82 or less.	28-31
M4 OP 05.A			. Divide a three-digit number, with last digit 0, by a one-digit number.	32-34
M3 WP 01.A	Test 6:	Solve Word Problems	. Solve one-step addition and subtraction word problems for sums through 1000.	35-38
M3 WP 01.B			. Solve selected two-step addition and subtraction word problems.	39-40
M3 NU 01.B	Test 7:	Numeration	. Read and write numerals, through four digits, in sequence.	41-42
M3 NU 01.A			. Identify place values for numerals through six digits.	43-44
M3 NU 02.A			. Express selected proper fractions, thirds, fourths, fifths, and eighths, by associating the symbols with shaded areas.	45-48

Math Skills Code	Test Number	Test Name	Skills	Test Item
M3 WP 01.A M4 TE 02.B	Test 8:	Calendar and Clocks	. Solve word problems using a calendar and write a given date (with numerals for the month, day, and year).	49-51
M3 WP 01.A			. Solve word problems using a clock.	52-53
M3 MY 01.A	Test 9:	Money	. Sum a collection of coins and bills up to $14.00.	54-56
M3 WP 01.A			. Solve one- and two-step word problems involving addition and subtraction of money values.	57-61
M3 ME 04.A	Test 10:	Measurement	. Find perimeters of polygons having no more than 4 sides, in inches and centimeters.	62-63
M3 ME 03.A M3 ME 03.B			. Read Fahrenheit and Celsius thermometers and record temperatures.	64-65
M4 ME 01.A M4 ME 02.A			. State that 100 cm = 1 m, 100 m = 1 km, 12 inches = 1 foot, 3 feet = 1 yard, 1000 g = 1 kg, 16 ounces = 1 pound.	66-71
M4 GE 01.A	Test 11:	Geometry	. Count the number of sides and angles in a given plane figure.	72-75
M4 GE 01.B			. Identify parallel and perpendicular lines.	76-77
M3 GE 02.B			. Describe relationships in circles by identifying the radius and the diameter of a circle.	78-79
M3 ST 01.A	Test 12:	Graphs	. Interpret information that is shown on bar and line graphs.	80-83
M3 TE 01.A	Test 14:	Time	. Tell time to the nearest minute.	90-92
M3 WP 01.A	Test 15:	Word Problems	. Solve one- and two-step multiplication problems and one-step division word problems.	97-100

POS MATHEMATICS TESTS
A Match of Test Items and Skills
Level 4 Forms A and B

Math Skills Code	Test Number	Test Name	Skills	Test Item
M4 OP 01.A	Test 1:	Whole Number Addition and Subtraction	. Apply whole number addition skills to problems involving as many as four digits. Determine the sum, using vertical forms.	1-3
M4 OP 02.A			. Find differences.	4-6
M4 WP 01.A	Test 2:	Word Problems: Addition and Subtraction of Money Values	. Create and solve word problems involving addition and subtraction of money values including consumer applications.	7-11
M4 MY 03.A		Money Values: Addition	. Add money values.	12-13
M4 MY 04.A		Subtraction, and	. Subtract money values.	14
M2 MY 02.A		Matching	. Use decimals by applying them to money values.	15-17
M4 ME 02.D	Test 4:	Measures of Mass and Liquid	. State that 2 pints = 1 quart and 4 quarts = 1 gallon.	18-19
M4 ME 02.C			. Identify the number of ounces in one-half and one-fourth pound.	20-21
M4 ME 01.C			. State that 1 liter = 1000 milliliters.	22
M4 NU 01.A	Test 5:	Whole Number Numerals	. Identify the place value of each digit in a nine digit numeral.	23-24
M4 NU 01.D			. Use one of the symbols <, =, >, to indicate whether one number is greater than, equal to, or less than another number.	25-26
M3 OP 04.B	Test 6:	Whole Number Multiplication	. Demonstrate knowledge of basic multiplication facts through 10 x 10 and find a missing factor of a number when given one factor.	30-32
M3 OP 06.A				
M4 OP 04.C			. Multiply a three-digit factor by a one-digit	33-35
M4 OP 04.C			. Apply whole number multiplication skills by multiplying three-digit factors by two-digit factors.	36-37
M4 NU 01.D			. Write the factors of a given whole number.	38-39

Math Skills Code	Test Number	Test Name	Skills	Test Item
M4 OP 03.A	Test 7:	Equations and Inequalities: Addition and Subtraction	. Solve simple equations and inequalities involving addition and subtraction.	40-43
M4 ME 02.B	Test 8:	Measures of Length	. Identify the inch and half-inch marks on a ruler.	44-45
M4 ME 01.A			. Identify the centimeter marks on a ruler.	46-47
M4 ME 02.A			. Describe the relationship among inches, feet, and yards. 12 inches = 1 foot; 3 feet = 1 yard; 36 inches = 1 yard.	48-50
M4 ME 01.A			. State that 10 millimeters = 1 centimeter; 100 centimeters = 1 meter; 1000 meters = 1 kilometer.	51-53
M3 TE 01.A	Test 9:	Expression of Time	. State that a specific time can be identified in several ways.	54-57
M3 TE 01.B			. Find the number of minutes which have elapsed between two minute-hand readings.	58-59
M6 ME 01.A M6 MR 01.B			. Add or subtract time units.	60-61
M4 TE 02.A	Test 10:	Conversion of Time	. Convert expressions of time using seconds, minutes, hours, days, weeks, months, and years.	62-67
M4 OP 05.A	Test 11:	Whole Number Division	. Apply whole-number division skills, using divisors which are single digits, and two- or three-digit dividends.	68-70
M4 OP 05.B			. Apply whole-number division skills, using divisors which are multiples of 10, and two- or three-digit dividends. Divide by using a multiple of 10 (through 90) as a divisor.	71-73
M4 WP 01.A	Test 12:	Word Problems: Multiplication and Division	. Create and solve word multiplication and division problems requiring division with one-digit divisors.	74-77
M4 ST 02.A	Test 13:	Graphs	. Show that graphs can picture numbers. Locate whole number points on a grid.	78-81

Math Skills Code	Test Number	Test Name	Skills	Test Item
M3 NU 02.A	Test 14:	Proper and Improper Fractions and Mixed Numerals	. Identify the numerator and the denominator of a fraction.	84-85
M4 OP 09.A M4 OP 10.A M4 OP 09.B	Test 15:	Fractions and Mixed Numbers: Addition and Subtraction	. Add or subtract two proper fractions with like denominators, using horizontal forms. . Add a whole number and a fraction, using both horizontal and vertical forms.	86-88
M4 GE 01.A	Test 16:	Geometry	. Identify pentagons and hexagons.	92-93
M4 ME 03.A	Test 17:	Perimeter and Area	. Measure perimeter and area. Find the perimeter of a given polygon.	97-98
M4 ME 04.A			. Measure perimeter and area. Estimate the area of a given polygon by using a square grid.	99-100

POS MATHEMATICS TESTS
A Match of Test Items and Skills
Level 5 Forms A and B

Math Skills Code	Test Number	Test Name	Skills	Test Item
M4 OP 01.A	Test 1:	Whole Numbers: Addition and Subtraction	. Apply whole-number addition skills involving as many as five digits.	1-2
M4 OP 02.A			. Apply whole-number subtraction skills involving as many as five digits.	3-4
M4 NU 01.E (thousand)	Test 2:	Numerals: Whole Numbers	. Round whole numbers to nearest hundred thousand or million.	9-12
M5 OP 01.A	Test 3:	Word Problems: Addition, Subtraction, Multiplication, and Division	. Write equations to restate word problems. Create and solve word problems.	13-20
M5 OP 01.B	Test 4:	Whole Numbers: Multiplication and Division	. Apply whole-number multiplication skills by multiplying a four-digit factor by a three-digit factor, using standard form.	21-22
M5 OP 02.B			. Apply whole number division skills including divisors with as many as two digits and dividends with as many as four digits.	23-26
M6 NU 01.E	Test 5:	Numbers: Prime and Composite	. Identify prime and composite numbers.	27-30
M6 NU 01.F			. Write the prime factors of a given composite number.	31-32
M6 NU 01.A			. Determine the least common multiple (LCM) of two given whole numbers, greater than zero.	33-34
M6 ME 01.A M6 ME 01.B	Test 6:	Time: Addition and Subtraction	. Determine time and time periods. Tell what time it will be after adding or subtracting hours and minutes.	35-38
M5 NU 01.A	Test 7:	Fractions: Equivalent and Lowest Terms	. Use one of the symbols <, =, >, to indicate whether one fraction is greater than, equal to, or less than another fraction.	39-41
M4 NU 02.A			. Express a fraction as an equivalent fraction.	42-43
M5 NU 01.C			. Express a fraction in lowest terms (simplest form).	44-45

Math Skills Code	Test Number	Test Name	Skills	Test Item
M5 OP 03.A M5 OP 04.B	Test 8:	Fractions and Mixed Numbers: Addition, Subtraction, and Multiplication	. Add subtract mixed numerals having unlike denominators, using LCM. Express solutions as whole numbers, fractions, or mixed numerals.	50-52
M5 OP 05.B			. Find the product of two fractions.	53-55
M5 OP 05.A	Test 9:	Ratios	. Use ratios in reading scale drawings.	56-59
M5 WP 01.A	Test 10:	Word Problems: Measurement	. Create and solve word problems involving measurement.	60-63
M4 OP 12.A	Test 11:	Decimals: Addition, Subtraction, Multiplication and Division	. Add with decimals through hundredths. decimals through hundredths.	64-65
M4 OP 13.A			. Subtract with decimals through hundredths.	66-67
M5 OP 08.B			. Multiply a decimal, through hundredths, by by a one-digit whole number.	68-69
M5 OP 09.B			. Divide a decimal, through hundredths, by a by a one-digit whole number.	70-71
M4 NU 03.A	Test 12:	Numerals: Decimal	. Interpret and express decimals through hundredths. Identify the place value of each digit in a decimal numeral.	72-75
M4 GE 01.B	Test 13:	Geometry	. Recognize a given pair of lines as parallel, perpendicular or intersecting.	76-78
M5 ME 01.B	Test 14:	Measurement: Converting Metric Units and Combining Traditional Units	. Convert metric units of length to other metric units: millimeters, centimeters, decimeters, and meters.	79-80
M5 ME 01.B			. Convert metric units of capacity to other units: milliliters, liters, and kiloliters.	81-83
M6 ME 01.A M6 ME 01.B			. Combine units of measure. Add and subtract measurements involving yards, feet, and inches, and simplifying the results.	84-87

Math Skills Code	Test Number	Test Name	Skills	Test Item
M5 WP 01.A	Test 15:	Word Problems: Money Values	. Perform operations using money values. Add and subtract money values up to $100.	88-90
M5 WP 01.A			. Create and solve word problems including consumer applications.	91-92
M5 ST 01.A	Test 16:	Graphs	. Describe data presented, interpret and make inferences by reading and making pictographs, bar graphs, and line graphs.	93-100

POS MATHEMATICS TESTS
A Match of Test Items and Skills
Level 6 Forms A and B

Math Skills Code	Test Number	Test Name	Skills	Test Item
M4 OP 01.A	Test 1:	Add or Subtract Whole Numbers	. Add four whole numbers, through five digits.	1-3
M4 OP 02.A			. Subtract whole numbers, through five-digit subtrahends and minuends.	4-6
M5 OP 01.B	Test 2:	Multiply or Divide Whole Numerals	. Multiply a three- or four-digit by a three-digit factor.	7-9
M6 OP 01.A			. Divide dividends, through five digits, by three-digit divisors.	10-12
M5 OP 03.A	Test 3:	Add or Subtract Mixed Numerals	. Add with mixed numerals, unlike denominators.	13-15
M5 OP 04.A			. Subtract with mixed numerals, unlike denominators.	16-18
M5 OP 05.B	Test 4:	Multiply or Divide Fractions	. Multiply with fractions having unlike denominators.	19-21
M6 OP 04.B			. Divide with fractions having unlike denominators.	22-24
M6 OP 05.A	Test 5:	Add, Subtract, Multiply, or Divide Decimals	. Add and subtract decimals through ten-thousandths.	25-27
M6 OP 06.A M5 OP 08.C			. Multiply with decimals, through thousandths for each factor.	28-30
M6 OP 07.A			. Divide decimals by decimals through hundredths.	31-32
M6 OP 08.A	Test 6:	Find Percents	. Find a requested percent.	33-38
M5 MY 02.A	Test 7:	Multiply or Divide Money Values	. Multiply using a money value as one of the factors.	39-41
M5 MY 03.A			. Divide using a money value as the dividend.	42-44
M6 TE 01.A	Test 8:	Convert and Interpret Time	. Interpret a timetable.	45-48
M5 ME 02.B			. Convert time using days, fractional parts of a day, hours, minutes, and seconds.	49-53
M6 WP 01.A	Test 9:	Solve Word Problems	. Solve word problems.	54-57
M6 NU 04.A	Test 10:	Write, Order, Round Decimals	. Express decimals through ten-thousandths.	58-60
M6 NU 04.B			. Use <, =, or > to order two given decimals through ten-thousandths.	61-63
M6 NU 04.C			. Round decimals to the nearest tenth, hundredth, or thousandth.	64-66

Math Skills Code	Test Number	Test Name	Skills	Test Item
M6 GE 01.D	Test 11:	Identify Triangles and Trapezoids	. Identify acute, obtuse, isosceles, and equilateral triangles.	67-70
M6 GE 01.B			. Identify trapezoids.	71-72
M4 ME 03.A	Test 12:	Find Perimeter, Circumference, Area, and Volume	. Find the perimeter of a square and the perimeter of a rectangle.	73-74
M6 ME 03.B			. Find the circumference of a circle using the formula $C = \pi d$.	75
M5 ME 03.A			. Find the area of a square and the area of a rectangle using the formula $A = l \times w$.	76-77
M6 ME 02.B			. Find the area of a parallelogram using the formula $A = b \times h$.	78-79
M6 ME 04.A			. Find the volume of a right prism using the formula $V = l \times w \times h$.	80-81
M5 ST 01.A	Test 13:	Interpret Graphs	. Make a table using information given on a graph in the coordinate plane.	82-88
M5 ST 02.A	Test 14:	Probability	. Write a fraction to indicate the probability of the occurence of an event.	89-92
M6 WP 01.A	Test 15:	Solve Word Problems	. Solve word problems related to measurement and money.	96-100

RECORDING POS TEST RESULTS

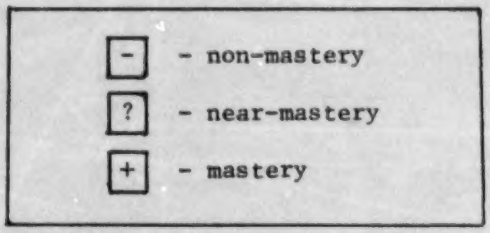
The POS tests were developed by FCPS teachers, curriculum specialists, and test personnel. A list of the skills tested in each subtest may be found in the Record Keeping/POS Testing Section in the Support Kit. This list will assist the teacher in locating specific math skills that are assessed when using the Math POS Tests. The ordering of POS tests and various score reports from the Fairfax County Public Schools Office of Research and Evlauation (ORE) is coordinated by the test coordinator in each school and is approved by the school principal.

Handscoring Aids: POS Test Answer Sheets, Templates, Class Records

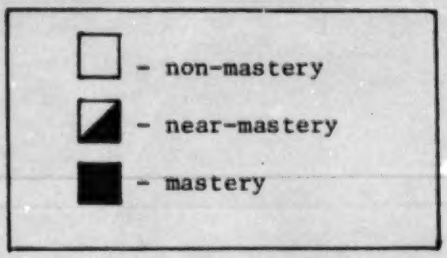
Those schools/teachers electing to handscore POS tests may use the POS answer keys and/or scoring templates found in the POS Management Tools Section of the Support Kit. To facilitate record keeping, Class Records also are available in the Record Keeping/ POS Testing Section. Whenever possible it is advisable that the Class Records be duplicated so that there is an adequate supply for all teachers in the school. The Class Records will provide a record of the date and level of POS tests that a class/team of students have taken and the level of mastery demonstrated on each subtest(s). The number of items which must be correctly answered in order to attain mastery, near mastery (mastery uncertain), or non-mastery may be found on the back of each Class Record.

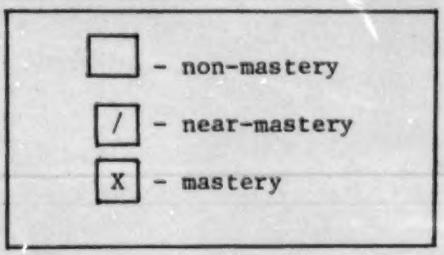
The Class Record: Recording Information

The manner in which individual student achievement is recorded on the Class Record may vary from teacher to teacher. Some teachers might wish to use the ORE codes of + = mastery, ? = mastery uncertain, and - = non-mastery.



Other teachers may wish to develop codes like those shown here:





Use of color coding is an additional aid for quick identification of students with similar instructional needs or groups of students who need further instruction on the skills in particular subtests.

Instructional Coding System:
Diagnostic Resources
for
Mathematics Program of Studies

Assigned Skill Code	Diagnostic Tools: Title	Diagnostic Tools: Items	Location
MK N4 01.A	Kindergarten Assessment Packet	Assessment #8 Quantitative Part I Skill Rote Counting	File a[illegible] labele[illegible] Tests

Black Line Master
May be Reproduced

Project MET

POS MATH TEST

LEVEL 3

CLASS RECORD

Teacher_____ School Year_____

POS MATH TEST - LEVEL 3
CLASS RECORD

STUDENT	Subtract Whole Numbers 5/6*	Add Whole Numbers 5/6	Missing Terms 7/8	Multiplication of Whole Numbers 5/7	Division of Whole Numbers 5/7	Solve Word Problems 5/6	Numeration 7/8	Calendar and Clocks 4/5	Money 6/8	Measurement 8/10	Geometry 6/8	Graphs 3/4	Periods of Time 5/6	Time 5/7	Word Problems 3/4			
	Test 1 Date	Test 2 Date	Test 3 Date	Test 4 Date	Test 5 Date	Test 6 Date	Test 7 Date	Test 8 Date	Test 9 Date	Test 10 Date	Test 11 Date	Test 12 Date	Test 13 Date	Test 14 Date	Test 15 Date	Test 16 Date	Test 17 Date	Test 18 Date	COMMENTS
1.																			1.
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39.																			39.
40.																			40.

*Mastery/number of test items
Example: 5 out of the 6 test items must be correct for mastery

MATHEMATICS TEST
LEVEL 3

PERFORMANCE LEVELS
SYMBOL KEY

TEST NUMBER	NAME	NUMBER OF ITEMS	MASTERY +	MASTERY UNCERTAIN ?	NONMASTERY —
1	Subtract Whole Numbers	6	5—6	4	0—3
2	Add Whole Numbers	6	5—6	4	0—3
3	Missing Terms	8	7—8	5—6	0—4
4	Multiplication of Whole Numbers	7	5—7	4	0—3
5	Division of Whole Numbers	7	5—7	4	0—3
6	Solve Word Problems	6	5—6	4	0—3
7	Numeration	8	7—8	5—6	0—4
8	Calendar and Clocks	5	4—5	3	0—2
9	Money	8	6—8	5	0—4
10	Measurement	10	8—10	7	0—6
11	Geometry	8	6—8	5	0—4
12	Graphs	4	3—4	2	0—1
13	Periods of Time	6	5—6	4	0—3
14	Time	7	5—7	4	0—3
15	Word Problems	4	3—4	2	0—1

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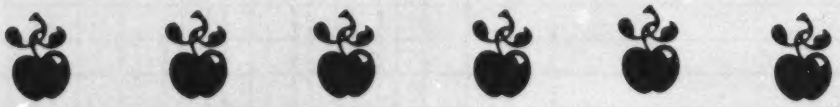
Project MET

POS MATH TEST

LEVEL 4

CLASS RECORD



Teacher_____ School Year_____

POS MATH TEST - LEVEL 4
CLASS RECORD

STUDENT	Test 1 Date: Whole Number Addition and Subtraction 5/6+	Test 2 Date: Word Problems: Addition and Subtraction 4/5	Test 3 Date: Money Values: Addition, Subtraction, and Matching 5/6	Test 4 Date: Measures of Mass and Liquid 4/5	Test 5 Date: Whole Number Numerals 5/7	Test 6 Date: Whole Number Multiplication 8/10	Test 7 Date: Equations and Inequalities: Addition and Subtraction 3/4	Test 8 Date: Measure of Length 6/10	Test 9 Date: Expression of Time 6/6	Test 10 Date: Conversion of Time 5/6	Test 11 Date: Whole Number Division 5/6	Test 12 Date: Word Problems: Multiplication and Division 3/4	Test 13 Date: Graphs 3/4	Test 14 Date: Proper and Improper Fractions and Mixed Numerals 3/4	Test 15 Date: Fractions and Mixed Numbers: +, and − 5/6	Test 16 Date: Geometry 4/5	Test 17 Date: Perimeter and Area 3/4	Test 18 Date	COMMENTS
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+Mastery/number of items
Example: 5 out of the 6 test items must be correct for mastery

MATHEMATICS TEST
LEVEL 4

PERFORMANCE LEVELS
SYMBOL KEY

TEST NUMBER	NAME	NUMBER OF ITEMS	MASTERY +	MASTERY UNCERTAIN ?	NONMASTERY —
1	Whole Number Addition and Subtraction	6	5—6	4	0—3
2	Word Problems: Addition and Subtraction	5	4—5	3	0—2
3	Money Values: Addition, Subtraction, and Matching	6	5—6	4	0—3
4	Measures of Mass and Liquid	5	4—5	3	0—2
5	Whole Number Numerals	7	5—7	4	0—3
6	Whole Number Multiplication	10	8—10	7	0—6
7	Equations and Inequalities Addition and Subtraction	4	3—4	2	0—1
8	Measures of Length	10	8—10	7	0—6
9	Expression of Time	8	6—8	5	0—4
10	Conversion of Time	6	5—6	4	0—3
11	Whole Number Division	6	5—6	4	0—3
12	Word Problems: Multiplication and Division	4	3—4	2	0—1
13	Graphs	4	3—4	2	0—1
14	Proper and Improper Fractions and Mixed Numerals	4	3—4	2	0—1
15	Fractions and Mixed Numbers: + and —	6	5—6	4	0—3
16	Geometry	5	4—5	3	0—2
17	Perimeter and Area	4	3—4	2	0—1

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Project MET

POS MATH TEST

LEVEL 5

CLASS RECORD

Teacher_____ School Year_____

POS MATH TEST - LEVEL 5
CLASS RECORD

*Master/number of test items
Example: 3 out of 4 test items
must be correct for mastery

STUDENT	Test 1 Date: Whole Numbers: Addition and Subtraction 3/4*	Test 2 Date: Numerals: Whole Number 6/8	Test 3 Date: Word Problems: +, −, ×, and ÷ 6/8	Test 4 Date: Whole Numbers: Multiplication and Division 5/6	Test 5 Date: Numbers: Prime and Composite 6/8	Test 6 Date: Time: Addition and Subtraction 3/4	Test 7 Date: Fractions: Equivalent and Lowest Terms 5/7	Test 8 Date: Fractions and Mixed Numbers: +, −, and × 8/10	Test 9 Date: Ratios 3/4	Test 10 Date: Word Problems: Measurement 3/4	Test 11 Date: Decimals: +, −, ×, and ÷ 6/8	Test 12 Date: Numerals: Decimal 3/4	Test 13 Date: Geometry 3/3	Test 14 Date: Meas.: Converting Metric Units and Comb. Eng. Units 8/9	Test 15 Date: Word Problems: Money Values 4/5	Test 16 Date: Graphs 6/6	Test 17 Date	Test 18 Date	COMMENTS
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MATHEMATICS TEST
LEVEL 5

PERFORMANCE LEVELS
SYMBOL KEY

TEST NUMBER	NAME	NUMBER OF ITEMS	MASTERY +	MASTERY UNCERTAIN ?	NONMASTERY —
1	Whole Numbers: Addition and Subtraction	4	3—4	2	0—1
2	Numerals: Whole Number	8	6—8	5	0—4
3	Word Problems: +, —, × and ÷	8	6—8	5	0—4
4	Whole Numbers: Multiplication and Division	6	5—6	4	0—3
5	Numbers: Prime and Composite	8	6—8	5	0—4
6	Time: Addition and Subtraction	4	3—4	2	0—1
7	Fractions: Equivalent and Lowest Terms	7	5—7	4	0—3
8	Fractions and Mixed Numbers: +, —, and ×	10	8—10	7	0—6
9	Ratios	4	3—4	2	0—1
10	Word Problems: Measurement	4	3—4	2	0—1
11	Decimals: +, —, ×, and ÷	8	6—8	5	0—4
12	Numerals: Decimal	4	3—4	2	0—1
13	Geometry	3	3	2	0—1
14	Meas.: Converting Metric Units & Comb. Eng. Units	9	8—9	7	0—6
15	Word Problems: Money Values	5	4—5	3	0—2
16	Graphs	8	6—8	5	0—4

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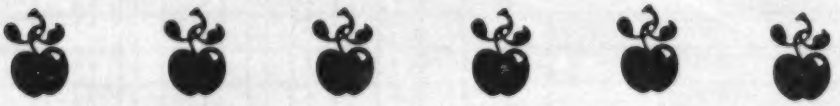
Project MET

POS MATH TEST

LEVEL 6

CLASS RECORD



Teacher_____ School Year_____

POS MATH TEST - LEVEL 6
CLASS RECORD

+Mastery/number of items
Example: 5 out of the 6 test items must be correct for mastery

STUDENT	Test 1 Date Add or Subtract Whole Numbers +5/6	Test 2 Date Multiply or Divide Whole Numbers 5/6	Test 3 Date Add or Subtract Mixed Numbers 5/6	Test 4 Date Multiply or Divide Fractions 5/6	Test 5 Date Add, Subtract, Multiply or Divide Decimals 6/8	Test 6 Date Find Percents 5/6	Test 7 Date Multiply or Divide Money Values 5/6	Test 8 Date Convert and Interpret Time 7/9	Test 9 Date Solve Word Problems 3/4	Test 10 Date Write, Order, Round Decimals 7/9	Test 11 Date Identify Triangles and Trapezoids 5/6	Test 12 Date Find Perimeter, Circumference, Area and Volume 8/9	Test 13 Date Interpret Graphs 5/7	Test 14 Date Probability 5/7	Test 15 Date Solve Word Problems 4/5	Test 16 Date	Test 17 Date	Test 18 Date	COMMENTS
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MATHEMATICS TEST
LEVEL 6

PERFORMANCE LEVELS SYMBOL KEY

TEST NUMBER	NAME	NUMBER OF ITEMS	MASTERY +	MASTERY UNCERTAIN ?	NONMASTERY —
1	Add or Subtract Whole Numbers	6	5—6	4	0—3
2	Multiply or Divide Whole Numbers	6	5—6	4	0—3
3	Add or Subtract Mixed Numbers	6	5—6	4	0—3
4	Multiply or Divide Fractions	6	5—6	4	0—3
5	Add, Subtract, Multiply or Divide Decimals	8	6—8	5	0—4
6	Find Percents	6	5—6	4	0—3
7	Multiply or Divide Money Values	6	5—6	4	0—3
8	Convert and Interpret Time	9	7—9	6	0—5
9	Solve Word Problems	4	3—4	2	0—1
10	Write, Order, Round Decimals	9	7—9	6	0—5
11	Identify Triangles and Trapezoids	6	5—6	4	0—3
12	Find Perimeter, Circumference, Area and Volume	9	8—9	7	0—6
13	Interpret Graphs	7	5—7	4	0—3
14	Probability	7	5—7	4	0—3
15	Solve Word Problems	5	4—5	3	0—2

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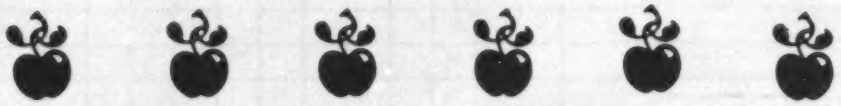
Project MET

POS MATH TEST

LEVEL 7

CLASS RECORD



Teacher_____ School Year_____

POS MATH TEST — LEVEL 7
CLASS RECORD

STUDENT	Test 1 Date — Numerical Values 3/4*	Test 2 Date — Least Common Multiple and Greatest Common Factor 3/4	Test 3 Date — Order of Whole Numbers 3/4	Test 4 Date — Mixed Nos. & Improper Fractions, Equiv. Dec., Reducing Frac. to Lowest Terms 7/8	Test 5 Date — Exponents 5/6	Test 6 Date — Percent 7/8	Test 7 Date — Whole Numbers: +, −, ×, ÷, and Average 8/10	Test 8 Date — Fractions: + and × 5/7	Test 9 Date — Decimals: +, −, ×, and ÷ 5/6	Test 10 Date — Variables 3/4	Test 11 Date — Proportions 5/6	Test 12 Date — Statistics 4/5	Test 13 Date — Geometric Figures 5/7	Test 14 Date — Geometric Relationships in a Plane 5/6	Test 15 Date — Units of Measure and Temperature 4/5	Test 16 Date — Measures of Geometric Figures 5/6	Test 17 Date — Money 3/4	Test 18 Date	COMMENTS
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*Mastery/number of test items
Example: 3 out of the 4 test items must be correct for mastery

MATHEMATICS TEST
LEVEL 7

PERFORMANCE LEVELS
SYMBOL KEY

TEST NUMBER	NAME	NUMBER OF ITEMS	MASTERY +	MASTERY UNCERTAIN ?	NONMASTERY —
1	Numerical Values	4	3—4	2	0—1
2	Least Common Multiple and Greatest Common Factor	4	3—4	2	0—1
3	Order of Whole Numbers	4	3—4	2	0—1
4	Mixed No. & Improper Fractions, Equiv. Dec., Reducing Frac. to Lowest Terms	8	7—8	5—6	0—4
5	Exponents	6	5—6	4	0—3
6	Percent	8	7—8	5—6	0—4
7	Whole Numbers: +, —, ×, ÷ and Average	10	8—10	7	0—6
8	Fractions: + and ×	7	5—7	4	0—3
9	Decimals: +, —, ×, and ÷	6	5—6	4	0—3
10	Variables	4	3—4	2	0—1
11	Proportions	6	5—6	4	0—3
12	Statistics	5	4—5	3	0—2
13	Geometric Figures	7	5—7	4	0—3
14	Geometric Relationships in a Plane	6	5—6	4	0—3
15	Units of Measure and Temperature	5	4—5	3	0—2
16	Measures of Geometric Figures	6	5—6	4	0—3
17	Money	4	3—4	2	0—1

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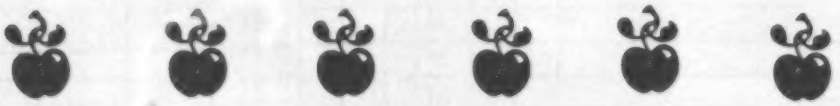
Project MET

POS MATH TEST

LEVEL 8

CLASS RECORD



Teacher_____ School Year_____

POS MATH TEST - LEVEL 8
CLASS RECORD

*Mastery/number of test items
Example: 4 out of the 5 test items must be correct for mastery.

STUDENT	Test 1 Scientific Notation 4/5* Date	Test 2 Integers 7/8 Date	Test 3 Determining Average 4/5 Date	Test 4 Rational Numbers 8/10 Date	Test 5 Solving Equations 5/6 Date	Test 6 Graphing in Four Quadrants 5/6 Date	Test 7 Classifying Angles 4/5 Date	Test 8 Measuring Geometric Figures 3/4 Date	Test 9 Computing Distance, Rate of Time 3/4 Date	Test 10 Determining Elapsed Time 4/5 Date	Test 11 Determining Wages 4/5 Date	Test 12 Consumer Banking 8/10 Date	Test 13 Cost of Purchases 7/9 Date	Test 14 Graphing 3/4 Date	Test 15 Taxes 3/4 Date	Test 16 Utility Bill 3/4 Date	Test 17 Computing Distance and Gas Mileage 5/6 Date	Test 18 Date	COMMENTS
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MATHEMATICS TEST
LEVEL 8

PERFORMANCE LEVELS
SYMBOL KEY

TEST NUMBER	NAME	NUMBER OF ITEMS	MASTERY +	MASTERY UNCERTAIN ?	NONMASTERY —
1	Scientific Notation	5	4—5	3	0—2
2	Integers	8	7—8	5—6	0—4
3	Determining Average	5	4—5	3	0—2
4	Rational Numbers	10	8—10	7	0—6
5	Solving Equations	6	5—6	4	0—3
6	Graphing in Four Quadrants	6	5—6	4	0—3
7	Classifying Angles	5	4—5	3	0—2
8	Measuring Geometric Figures	4	3—4	2	0—1
9	Computing Distance, Rate or Time	4	3—4	2	0—1
10	Determining Elapsed Time	5	4—5	3	0—2
11	Determining Wages	5	4—5	3	0—2
12	Consumer Banking	10	8—10	7	0—6
13	Cost of Purchases	9	7—9	6	0—5
14	Graphing	4	3—4	2	0—1
15	Taxes	4	3—4	2	0—1
16	Utility Bill	4	3—4	2	0—1
17	Computing Distances and Gas Mileage	6	5—6	4	0—3

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